b) Amendments to the Claims

Kindly amend claims 1 and 3 and add new claims 44 and 45 as follows. A detailed listing of all the claims that are or were in the application follows:

1. (Currently Amended) A magnetic recording medium, in which an aluminum oxide a mainly aluminum layer having holes on a substrate is filled with a magnetic substance, comprising:

at least one conductive layer between the aluminum oxide mainly aluminum layer and the substrate,

wherein the magnetic substance contacts the conductive layer and the magnetic substance includes a hard magnetic substance that has hcp structure and the c-axes of which are oriented in a direction perpendicular to the substrate.

- 2. (Original) The magnetic recording medium according to claim 1, wherein the hard magnetic substance includes Co.
- 3. (Currently Amended) The magnetic recording medium according to claim † 2, wherein the mainly aluminum layer aluminum oxide has nanoholes formed by anodic oxidization.
- 4. (Original) The magnetic recording medium according to claim 1, wherein the conductive layer is a base electrode layer.

- 5. (Original) The magnetic recording medium according to claim 1, wherein the conductive layer includes Cu as a component.
- 6. (Original) The magnetic recording medium according to claim 1, wherein a portion of each of the fillers with which the holes are filled, the portion which contacts the conductive layer, has fcc structure and its (111) face is oriented in a direction perpendicular to the substrate.
- 7. (Original) The magnetic recording medium according to claim 6, wherein the portion touching the conductive layer includes Cu as a component.
- 8. (Original) The magnetic recording medium according to claim 6, wherein the portion touching the conductive layer includes NiFe as a component.
- 9. (Original) The magnetic recording medium according to claim 2, wherein the hard magnetic substance including Co includes at least one element among Cu, Cr, P, Ni, Pt, and Pd.
- 10. (Original) The magnetic recording medium according to claim 1, wherein materials from the conductive layer to the hard magnetic substance are given epitaxial growth.

- 11. (Original) The magnetic recording medium according to claim 1, wherein a soft magnetic substance layer is formed under the conductive layer.
- 12. (Original) The magnetic recording medium according to claim 1, wherein the holes are arranged in a honeycomb array.
- 13. (Original) The magnetic recording medium according to claim 1, wherein the holes are arranged in a rectangular array.
- 14. (Previously Presented) A magnetic record and reproduction apparatus comprising the magnetic recording medium according to claim 1.
- 15. (Original) A magnetic recording medium, in which an aluminum oxide layer having holes on a substrate is filled with a magnetic substance, comprising:

 at least one conductive layer between the aluminum oxide layer and the substrate,

wherein the conductive layer has fcc structure and its (001) face is oriented in a direction perpendicular to the substrate, and the magnetic substance includes a hard magnetic substance that has $L1_0$ structure and the c-axes of which are oriented in the direction perpendicular to the substrate.

- 16. (Original) The magnetic recording medium according to claim 15, wherein the hard magnetic substance includes MPt (M = Co, Fe, Ni).
- 17. (Original) The magnetic recording medium according to claim 15, wherein the conductive layer includes any one among Pt, Pd, Cu, Ir, and Rh.
- 18. (Original) The magnetic recording medium according to claim 15, wherein a portion of each of the fillers with which the holes are filled, the portion which contacts the conductive layer, has fcc structure and its (001) face is oriented in a direction perpendicular to the substrate.
- 19. (Original) The magnetic recording medium according to claim 18, wherein the portion contacting the conductive layer includes any one among Pt, Pd, Cu, Ir, and Rh.
- 20. (Original) The magnetic recording medium according to claim 16, wherein the hard magnetic substance including MPt (M = Co, Fe, Ni) includes at least one element among Cu, Cr, P, Ag, and Pd.
- 21. (Original) The magnetic recording medium according to claim 16, wherein materials from the conductive layer to the hard magnetic substance including MPt (M = Co, Fe, Ni) are given epitaxial growth.

- 22. (Original) The magnetic recording medium according to claim 15, wherein an MgO (001) layer is formed under the conductive layer.
- 23. (Original) The magnetic recording medium according to claim 15, wherein a soft magnetic substance layer is formed under the conductive layer.
- 24. (Original) The magnetic recording medium according to claim 15, wherein the holes are arranged in a honeycomb array.
- 25. (Original) The magnetic recording medium according to claim 15, wherein the holes are arranged in a rectangular array.
- 26. (Previously Presented) A magnetic record and reproduction apparatus comprising the magnetic recording medium according to claim 15.
- 27. (Original) A magnetic recording medium, in which an aluminum oxide layer having holes on a substrate is filled with a magnetic substance, comprising:

at least one conductive layer between the aluminum oxide layer and the substrate, wherein the conductive layer has any one of L1₀, L1₁, and L1₂ ordered structures, and its square array face is oriented in a direction perpendicular to the substrate, and the magnetic substance includes a hard magnetic substance that has the L1₀ structure and the c-axes of which are oriented in the direction perpendicular to the substrate.

- 28. (Original) The magnetic recording medium according to claim 27, wherein the hard magnetic substance includes MPt (M = Co, Fe, Ni).
- 29. (Original) The magnetic recording medium according to claim 28, wherein the conductive layer has any one among L1₀ ordered structure including MPt (M = Co, Fe, Ni), L1₁ ordered structure including CuPt, and L1₂ ordered structure including CoPt₃.
- 30. (Original) The magnetic recording medium according to claim 28, wherein the hard magnetic substance including MPt (M = Co, Fe, Ni) includes at least one element among Cu, Cr, P, Ag, and Pd.
- 31. (Original) The magnetic recording medium according to claim 28, wherein materials from the conductive layer to the hard magnetic substance including MPt (M = Co, Fe, Ni) are given epitaxial growth.
- 32. (Original) The magnetic recording medium according to claim 27, wherein an MgO (001) layer is formed under the conductive layer.
- 33. (Original) The magnetic recording medium according to claim 27, wherein a soft magnetic substance layer is formed under the conductive layer.

- 34. (Original) The magnetic recording medium according to claim 27, wherein the holes are arranged in a honeycomb array.
- 35. (Original) The magnetic recording medium according to claim 27, wherein the holes are arranged in a rectangular array.
- 36. (Previously Presented) A magnetic record and reproduction apparatus comprising the magnetic recording medium according to claim 27.

Claims 37. - 43. (Cancelled)

- 44. (New) The magnetic recording medium according to claim 1, wherein the conductive layer has fcc structure and its (111) face is oriented in a direction perpendicular to the substrate.
- 45. (New) The magnetic recording medium according to claim 1, wherein the layer is an aluminum oxide layer.--